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(54) VOLUME HOLOGRAM OPTICAL
ELEMENT

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a volume hologram liquid crystal element having high reflectivity.

SOLUTION: This optical element consists of a liquid crystal-high-polymer composite film element having a structure alternately laminated with high-polymer layers 3 consisting of a high-polymer compd. and high-polymer liquid crystal layers 4 formed by dispersing liquid crystals into the high-polymer compd. In such a case, the high-polymer compd. consists of a high-polymer compd. contg. at least a fluorine-containing polymerizable compd. as a monomer component. The liquid crystal-high-polymer composite film element described above is held by two sheets of electrode plates, by which the volume hologram optical element is constituted.

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